

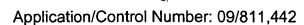
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/811,442	03/20/2001	Yoshinori Kitahara	HITA.0040	9536
38327	7590 07/14/2004		EXAM	INER
REED SMITH LLP			LEWIS, MICHAEL A	
3110 FAIRVIEW PARK DRIVE, SUITE 1400 FALLS CHURCH, VA 22042			ART UNIT	PAPER NUMBER
			2655	
			DATE MAILED: 07/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	09/811,442	KITAHARA ET AL.				
Office Action Summary	Examiner	Art Unit				
TI MANUNO DATE CUI	Michael A Lewis	2655				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 15 Ap	<u>oril 2004</u> .					
2a) This action is FINAL . 2b) ☐ This	☐ This action is FINAL . 2b) ☐ This action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1 - 20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1 - 20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date S Ratest and Trademate Office.	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:					



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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.



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Claims 1 – 2, 4 –8, & 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (U.S. Patent 6161082) in view of Chin et al. (U.S. Patent Application 20010029455).

Regarding claims 1 & 2, Goldberg et al. disclose a method for providing a speech interpretation [translation] service, comprising:

- a. Providing an interpretation server having resident thereon a plurality of registered sentences to be interpreted. Goldberg et al. describes a Network that includes at least one translation [claimed interpretation] server and databases for storing and retrieving stored sentences (Col 4, Line 14).
- b. Allowing a Communicating to a mobile terminal communicatively connected to the interpretation server, at least one of the pluralities of registered sentences to be interpreted (Col 3, Line 20; Col 4, Line 15).
- c. Receiving speech, in a first language, inputted to the mobile terminal [phone/computer with keypad/touch-pad/microphone that has wireless transmission/reception capability], at the interpretation server (Col 6,49-54,Col 3, Lines 49 –56).
- d. Recognizing by the interpretation server the speech inputted based on a comparison of the inputted speech to the plurality of registered sentences to be interpreted (Col 4, Line 15).



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e. Interpreting, by the interpretation server, the recognized speech into a second language, according to said recognizing (Col 3, Lines 49-55).

f. Outputting a translation signal correspondent to the second language to the terminal from the interpretation server. Goldberg et al. describe client computer terminals and a Network based [claimed interpretive] server interconnected with each other to display translated languages (Col 3, Lines 27-50).

Goldberg et al. do not disclose displaying in accordance with languages available at the interpretation server of an interpretable language classification menu on the mobile terminal. However, Chin et al. teaches displaying in accordance with languages available at the interpretation server of an interpretable language classification menu on the mobile terminal and receiving a selection input of the first and second language from the mobile device [language toolbar that resides on the top or bottom of the user's browser screen that gives the user functional control over the language translation....] (Page 6, Paragraph 0114 – Paragraph 0117; Fig 7 – Fig 9). The language classification menu empowers the user with enhanced navigational control in the mobile device.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention was made to modify Goldberg et al. to display a language

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classification menu and receiving a selection input from a mobile device as taught by Chin et al. since it would have enhanced the decision making process for subscribers to the interpretation service.

Regarding claim 4, Goldberg et al. disclose that the communicative connection is a telephonic audio network connection (Col 6, Line 49).

Regarding claim 5, Goldberg et al. disclose the translation signal comprises an audio signal, wherein said outputting a translation signal correspondent to the second language to the mobile terminal comprises outputting the audio signal on the mobile terminal via the telephone network (Col 6, Line 66 - Col 7,Line 9).

Regarding claim 6, Goldberg et al. disclose further comprising: receiving an approval instruction from the mobile terminal of the second language before said outputting a translation signal correspondent to the second language. Goldberg et al. describes an oral communication application where from a terminal [including claimed mobile device], the user can be prompted on language preference for which the user can respond with a choice (Col 6, Lines 41-50; Col 5, Line 38).

Regarding claim 10, Goldberg et al. disclose a system comprising a further narrowing, based on a dictionary database, the ones of the plurality



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of registered sentences for said recognizing the speech inputted based on a comparison of the inputted speech to the plurality of registered sentences to be interpreted. Goldberg et al. describes narrowing the database search for stored model sentences with the use of two types of language translation programs that are combined together, a keyword and sentence model program. The combination of the program is a more efficient arrangement for retrieving translated sentences from the database (Col 4, Lines 23 - 45).

3. Claims 7 & 8 are rejected under 35 U.S.C. 103(a) as being unpatentable Goldberg et al. (U.S. Patent 6161082) in view of Chin et al. (U.S. Patent Application 20010029455). as applied to claim 6 above, and further in view of King (U.S. Patent 6532446).

Regarding claims 7 & 8, Goldberg et al. also disclose a method wherein:

a. The approval instruction is an audio approval instruction given at the mobile terminal (Col 6, Lines 63; Col 4, Line 63 - Col 5,Line 4))
b. The outputting of a translation signal correspondent to the second language is in accordance with the approval instruction (Col 5,Line 10). Goldberg et al. describes that subscribers may be prompted for the desired language format. Once the intended recipient chooses the language format, the translated signal can be

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outputted. Goldberg et al. do not disclose an audio instruction that is selected from a speaking set. However, King et al. teach the use of a manual [keypad or touch-screen] or spoken input utilizing speech recognition to navigate a menu [claimed speaking set] displayed on a mobile device. The menu can be strings of phone numbers and sentences and other stored information (Col 11, Line 25). Hands-free menu navigation is a beneficial feature for users operating mobile devices.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify Goldberg et al. to input manual or audio instructions to navigate the menus of a mobile device as taught by King since it would have empowered mobile users with the manual and handsfree operation features.

3. Claims 3, 12 - 16,18 & 19 are rejected under 35 U.S.C. 103(a) as being unpatentable Goldberg et al. (U.S. Patent 6161082) in view of Chin et al. (U.S. Patent Application 20010029455). as applied to claims 1 – 2, 4 –8 &10 above, and in further view of Sukeda et al. (U.S. Patent 5854997).



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Regarding claim 3, the combination of Goldberg et al. and Chin et al. do not explicitly disclose related details of the use of menus on a mobile terminal. However, Sukeda et al. disclose a plurality of scenes [menus and submenus] where each scene includes a plurality of model sentences, further comprising:

- a. Displaying on the mobile terminal a model sentence field (Col 5, Lines 4 –20)
- b. Receiving a model sentence field selection of a model sentence from the model sentence field (Col 7, Line 5).
- c. Interpreting comprises interpreting the inputted speech according to the model sentence field selection (Col 7, Line 9).

The general use of menus makes it easier to categorize and retrieve data from databases used on the interpretation server.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention was made to modify the combination of Goldberg et al. and Chin et al. to include menus on a mobile device as taught by Sukeda et al. since it would have enhanced the decision making process for subscribers to the interpretation service.

Regarding claims 12,18 & 19, the combination of Goldberg et al. and Chin et al. disclose a speech interpretation service consisting of speech interpretation server that is used by a mobile terminal, comprising:

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a. A speech input for receiving an inputted speech in a first
language from a mobile terminal (Col 6, Lines 49 - 54, Col 3, Lines 49 - 56).

- b. A memory having stored thereon a plurality of model sentences, wherein the prescribed symbol string is present among the plurality of model sentences Goldberg et al. describes a Network that includes at least one translation [claimed interpretation] server and databases for storing and retrieving stored sentences (Col 4, Line 14).
- c. A speech output that outputs the second language in audio or text to the mobile terminal (Col 3, Lines 49-55; Col 7 Line 6).
- d. At least one connection between the mobile terminal and the communication server (Col 6, Lines 49-54).
- e. One connection is at least one selected from the group consisting of a mobile Internet connection and a telephone network connection (Col 6, Lines 49-54).

In addition, the combination of Goldberg et al. and Chin et al. teaches a text input being converted/transformed from a source language to a target language by the use of translation engine databases with dictionaries (Chin, Title: Fig 13). The combination of Goldberg et al. and Chin et al. do not explicitly teach the conversion/translation to prescribed symbol string.

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However, Sukeda et al. teach a speech recognizer that receives the inputted speech and converts the inputted speech into a prescribed symbol string (Sukeda Col 5, Lines 16). Sukeda describes cards [menus] that each has a series of model sentences to which they are associated. The cards include sentences [claimed prescribed sentences] that are the keyword for retrieving sentences from a database. In addition, Sukeda et al. teach that the data structure of the data in the database is defined with an ID of a text to be displayed and translated, and audio data file of the text and a pointer for a card linked with the sentences (Col 6, Lines 11 – 25). The method of creating prescribed strings [identifiers or references] to data is standard in database technology since it creates a pointer to data so that storing and retrieving data becomes a much more efficient process.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify combination of Goldberg et al. and Chin et al. to use prescribed strings to access data as taught by Sukeda et al. since it makes interpreting or translating sentences a much more efficient process.

Regarding claim 13, Sukeda discloses the memory comprises: a command sentence table, including a plurality of command sentences, wherein said speech recognizer differentiates the plurality of model

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sentences from the plurality of command sentences, and wherein each of the plurality of command functions instructs an action by the speech interpretation server (Sukeda et al. (Col 2, Line 35 –41). Sukeda et al. describes a control program that stores model sentences, command sentences and translated sentences in various tables [cards] within a database that resides in the memory of a computer. In addition, the display shows several command functions that can be used to access the data (Fig 3, (202); Fig 4 – Fig 5). Storing data in computer memory and presenting a front-end with icons to retrieve data is basic to database operation.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify combination of Goldberg et al. and Chin et al.to store data in memory and provide command functions as taught by Sukeda et al. since it makes interpreting or translating sentences a much more efficient process (Sukeda et al.(Col 2, Line 35 –41).

Regarding claim 14, Sukeda et al. disclose a comparator, wherein a comparator compares the inputted speech to the plurality of model sentences in order to generate the prescribed symbol string (Col 6, Lines 11 – 25).

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Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify Goldberg et al. to compare the model sentences as taught by Sukeda et al. since it gives the user a choice (Sukeda et al. (Col 2, Line 29 – 34).

Regarding claim 15, the combination of Goldberg in view of Sukeda et al. disclose each of the plurality of model sentences is classified according to a scene of use [menus] (Sukeda et al., Fig 7).

Regarding claim 16, Goldberg et al. disclose that the speech output comprises a speech synthesizer output that outputs the second language to the mobile terminal in audio (Fig 3, 303,203).

4. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (U.S. Patent 6161082) in view of Chin et al. (U.S. Patent Application 20010029455) in view of King (U.S. Patent 6532446)as applied to claim 7 above, and further in view of Sukeda et al. (U.S. Patent 5854997).

Regarding claim 9, the combination of Goldberg et al. and Chin et al. disclose a method wherein:

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a. The approval instruction is an audio approval instruction given at the mobile terminal (Goldberg et al: Col 6, Lines 63; Col 4, Line 63 - Col 5,Line 4))

b. The outputting of a translation signal correspondent to the second language is in accordance with the approval instruction.

Goldberg et al. describes that subscribers may be prompted for the desired language format. Once the intended recipient chooses the language format, the translated signal can be outputted (Goldberg et al: Col 5,Line 10).

The combination of Goldberg et al. and Chin et al. do not explicitly disclose the use of a manual [keypad or touch-screen] or spoken input utilizing speech recognition to navigate a menu [claimed speaking set] displayed on a mobile device. The menu can be strings of phone numbers and sentences and other stored information. However, King et al. teach the use of a manual [keypad or touch-screen] or spoken input utilizing speech recognition to navigate a menu [claimed speaking set] displayed on a mobile device. The menu can be strings of phone numbers and sentences and other stored information (Col 11, Line 25). Keypad or touchscreen or vocal commands gives a more diverse choice in navigating the menus.

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Therefore, it would have been obvious to one of ordinary skill at the time of the invention was made to modify the combination of Goldberg and Chin with the use of as taught by King et al. since the choice of keypad, touchscreen or vocal commands gives a more diverse choice in navigating the menus.

The modified Goldberg et al. do not teach the use of repeating of the outputting translation signal. However, Sukeda et al. disclose a method of repeating the outputting of a translation signal correspondent to the second language in accordance with the approval instruction upon each receipt of the approval instruction (Col 6, Lines 43-55). This procedure is necessary to repeatedly check on whether the source language phrase translation is present in the database.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify the modified Goldberg et al. to input manual or audio instructions to navigate the menus of a mobile device as taught by Sukeda et al. since it would have given users the ability to recheck the output translation.



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5. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (U.S. Patent 6161082) in view of Chin et al.as applied to claim 1 avbove, and further in view of Emery et al. (U.S. Patent 5727057).

Regarding claim 11, Goldberg et al. do not teach identifying mobile terminals and billing users. However, Emery et al. teach a method that further comprises of:

- a. Identifying the mobile terminal based on at least one identifying characteristic (Col 11, Line 5).
- b. Charging a predetermined fee to the identified mobile terminal for said interpreting or service provided (Col 13, Line 60).

It is in the interest of all service providers to be able to track usage by customers for billing and other purposes.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention was made to modify combination of Goldberg et al. and Chin et al. to track subscriber's usage of the service for billing purposes as taught by Emery et al. since it is the interest of the service provider to track and bill customers.

6. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (U.S. Patent 6161082) in view of Chin et al. (U.S. Patent Application 20010029455) in view of Sukeda et al. (U.S. Patent 5854997)as

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applied to claim 12 above, and in further view of Emery et al. (U.S. Patent 5727057).

Regarding claim 17, the modified Goldberg et al. do not teach the use of identifying and billing subscribers. Emery et al. teach a speech interpretation server that further comprises of:

- a. An authorizer, wherein said authorizer identifies the mobile terminal based on at least one identifying characteristic (Col 10, Line 12).
- b. A billing database, wherein the mobile terminal correspondent to the at least one identifying characteristic is billed by said billing database for use of the speech interpretation [or navigation service provided] server for a predetermined time (Col 13, Line 60).

It is in the interest of all service providers to be able to track usage by customers for billing and other purposes.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to further modify the modified Goldberg et al. to track subscribers usage of the service for billing purposes as taught by Emery et al. since it is the interest of the service provider to bill customers.

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Response to Arguments

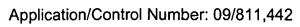
1. Applicant's arguments with respect to claims 1, 2, 12 & 18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael A Lewis whose telephone number is 703 305-8730. The examiner can normally be reached on Monday through Friday, 8:30 am – 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on (703)305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Lewis A Michael Examiner Art Unit 2655

Mal

7/6/2004

W. R. YOUNG